



Analytical Laboratory

Analytical Lab
Page 1 of 5

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13080064

Project Name: NPDES - QUARTERLY

Customer Name(s): Michael Byrd, Craig Mercer, Mark J Harper, Todd Spade, Matthew Hoyt

Customer Address: 11021 BROWER RD.

NORTH BEND, OH 45052

Lab Contact: Mary Ann Ogle

Phone: 980-875-5274

Report Authorized By:
(Signature)

Mary Ann Ogle

Date: 8/23/2013

Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013018291	MIAMI-FORT	06-Aug-13 8:35 AM	Mark Harper	OUTFALL 002
2013018292	MIAMI-FORT	06-Aug-13 9:00 AM	Mark Harper	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

- | | | |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All Results are less than the laboratory reporting limits. | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All laboratory QA/QC requirements are acceptable. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Report Sections Included:

- | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Job Summary Report | <input type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: Mary Ann Ogle

Date: 8/23/2013

Certificate of Laboratory Analysis

Analytical Lab
Page 4 of 5

This report shall not be reproduced, except in full.

Order # J13080064

Site: OUTFALL 002

Collection Date: 06-Aug-13 8:35 AM

Sample #: 2013018291

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>AMMONIA (COLORIMETRIC)</u>								
Ammonia (Colorimetric)	0.153	mg-N/L		0.02	1	EPA 350.1	08/19/2013 13:43	BGN9034
<u>TOTAL KJELDAHL NITROGEN (COLORIMETRIC)</u>								
Total Kjeldahl Nitrogen (Colorimetric)	0.91	mg-N/L		0.15	1	EPA 351.2	08/15/2013 11:01	BGN9034
<u>TOTAL DISSOLVED SOLIDS</u>								
TDS	940	mg/L		25	1	SM2540C	08/12/2013 17:14	DSBAKE1

Site: OUTFALL 608

Collection Date: 06-Aug-13 9:00 AM

Sample #: 2013018292

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>ALKALINITY (FIXED END POINT 4.5)</u>								
Alkalinity (mg/L CaCO ₃)	1000	mg/L (CaCO ₃)		0.1	1	SM2320B	08/13/2013 16:14	TJA7067
<u>INORGANIC IONS BY IC</u>								
Chloride	5400	mg/L		100	1000	EPA 300.0	08/08/2013 16:33	JAHERMA
Fluoride	16	mg/L		10	100	EPA 300.0	08/08/2013 16:33	JAHERMA
Sulfate	12000	mg/L		200	2000	EPA 300.0	08/08/2013 16:33	JAHERMA
<u>TOTAL METALS BY ICP</u>								
Boron (B)	340	mg/L		0.5	10	EPA 200.7	08/12/2013 13:10	MHH7131
Iron (Fe)	0.053	mg/L		0.01	1	EPA 200.7	08/12/2013 13:10	MHH7131
Manganese (Mn)	1.01	mg/L		0.005	1	EPA 200.7	08/12/2013 13:10	MHH7131
<u>TOTAL RECOVERABLE METALS BY ICP-MS</u>								
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Barium (Ba)	133	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
<u>TOTAL DISSOLVED SOLIDS</u>								
TDS	31000	mg/L		25	1	SM2540C	08/12/2013 17:14	DSBAKE1
<u>TOTAL SUSPENDED SOLIDS</u>								
TSS	13	mg/L		5	1	SM2540D	08/12/2013 18:43	TJA7067

